

TED8620R
ADSL MODEM/ROUTER

USER MANUAL

VER:1.0

Manual Contents

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1、TED8620R Introduction

1.1 Technical Feature

- ◆ Integrated ADSL MODEM and broadband Router
- ◆ Ethernet Interface, connectible to NIC, HUB, Switch
- ◆ Maximum downstream rate of 8Mbps, Maximum upstream rate of 1Mbps
- ◆ Maximum Transmit length 5.4Km
- ◆ Compliant with most CO DSL
- ◆ Web-based Management
- ◆ Supply Multi-User Shared Access Internet
- ◆ Compliant with ANSI T1.413, ITU G.dmt, ITU G.lite standards
- ◆ Compliant with PppoE, PppoA, Clip Standards
- ◆ Compliant with RFC 1483 Bridge、RFC 1483 Router
- ◆ Compliant with Classical IP over ATM (RFC 1577)
- ◆ Supply DHCP, NAT, ICMP, IGMP Server
- ◆ Supply Static routing, Dynamic routing (RIPv2)
- ◆ Internal Firewall, Prevent Hacker Attack

1.2 Package Content

- TED8620R ADSL MODEM/Router/Firewall
- User Manual
- Power adapter and power cord
- ADSL Splitter
- RJ45 network cable
- RJ11 Phone/DSL line 2 pcs

1.3 TED8620R Appearance

1.3.1 TED8620R LED Indicator



TED8620R Front Panel

There are five LED indicators in the front panel of TED8620R as following:

LED Indicator	Color	Status	Description
POWER	Green	On	Power on
	—	Off	Power off
LAN_LINK	Green	On	On: LAN link established and active
		Off	Off: No LAN link
LAN_ACT	Green	Glnt	Transmitting or receiving data between TED8620R and computer or switch
ADSL_LINK	Green	On	Physical layer link with TED8620R
		Glnt	No physical layer link with TED8620R
		Fast glnt	Handclasp physical layer link with TED8620R
ADSL_ACT	Green	Glnt	TED8620R are transmitting or receiving data

1.3.2 TED8620R Interface of Rear Panel



TED8620R Rear Panel

Power Jack: AC 9V, 1A

RESET: If you want to restore the factory default setting, please press the button 3 times. All LED indicators will light and die and the system will restart and restore the factory default setting automatically **(Please don't press RESET unless you want to delete current data).**

LAN: RJ-45 port

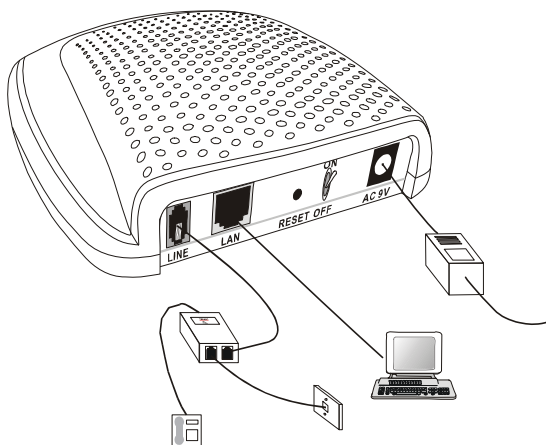
LINE: ADSL/ phone port

2、TED8620R Hardware Installation

Please install the TED8620R hardware system as following:

- ❶ Please connect TED8620R with ADSL power adaptor.
- ❷ Please connect the LAN port of TED8620R with your computer's LAN card by RJ-45 cable.
- ❸ Please insert ADSL phone into LINE port of TED8620R.

If you use ADSL splitter, please connect LINE port of the splitter with phone port provided by ADSL server and connect phone port with telephone and connect MODEM with LINE port of TED8620R



TED8620R Installation Sketch Map

3、TED8620R Internet Connection

Logging in WEB Interface

TED8620R is plug and play and there are 1 kinds of bridge joint pattern in it. You can use other software to dial up directly or use router to dial up directly without special setting of TED8620R. If you want to use the built in software to dial up and use it's router of TED8620R, please set up it as following:

The TED8620R factory default setting of it's IP address is 192.168.1.1 If you want to config it, First, you need to set the IP address of your LAN card in the same network segment or set your LAN card as automatically obtain IP address. Then, please restart your computer and input 192.168.1.1 and click Enter, the following logging screen will appear. Please input "root" in User Name and input "root " then click "OK" .(Caution: user name and pass word should be small letter)



3.1 Setting Main Manual

After you setup your user name and password correctly, the following screen will appear.

ADSL MODEM / Router Configuration Manager GUI

HomeLANWANBridgingRoutingServicesAdmin

Home | System Mode | Quick Configuration

Use this page to get the summary on the existing configuration of your device.

Device		DSL			
Model:	Viking	Operational Status:	Startup Handshake		
H/W Version:	810020	Last State:	0x0		
S/W Version:	VDR-2.1.041001a	DSL Version:	V.1.31.11		
Serial Number:	123456789abdcx	Standard:	Multimode		
Mode:	Routing And Bridging	Up	Down	Speed	Latency
Up Time:	0:1:23	Speed	Latency	Speed	Latency
Time:	Thu Jan 01 00:01:23 1970	0 Kbps	-	0 Kbps	-
Time Zone:	GMT				
Daylight Saving Time:	OFF				
Name:	OFF				
Domain Name:	OFF				

WAN Interfaces							
Interface	Encapsulation	IP Address	Mask	Gateway	Lower Interface	VPI/VCI	Status
ppp-0	PPPoE	0.0.0.0	0.0.0.0	0.0.0.0	aal5-0	0/35	
boa-0	Bridged	0.0.0.0	0.0.0.0	0.0.0.0	aal5-0	0/35	
boa-1	Bridged	0.0.0.0	0.0.0.0	0.0.0.0	aal5-1	8/35	

From the above screen we can see that in WAN Interface there are two kinds of bridge joint pattern with different parameters. When you config it please notice the VPI and VCI of local ISP .You can't add two setting with same parameters (VCI, VPI) If you want to config same parameters as the built-in bridge joint pattern, please modify the corresponding bridge joint pattern. You can do that in this way.

3.2 Access Internet with built in dial-up software

3.2.1 Preparative

Before setting please confirm if you have get the following parameters from your local ISP:VCI,VPI,User Access Method and encapsulation format, dial-up account, password.

3.2.2 ADSL MODEM Parameters Setting

Please click Quick Configuration in the main manual, then the following screen will appear and now we illuminate them in detail appear.

The screenshot shows the 'ADSL MODEM / Router Configuration Manager GUI'. The top navigation bar includes 'Home', 'LAN', 'WAN', 'Bridging', 'Routing', 'Services', and 'Admin'. Below this, a breadcrumb trail reads 'Home | System Mode | Quick Configuration'. The main configuration area is for 'ATM Interface: 1'. The settings are as follows:

ATM Interface:	1
Operation Mode:	Enabled
Encapsulation:	PPPoE LLC
VPI:	8
VCI:	35
Bridge:	Disabled
IGMP:	Enabled
IP Address:	0 0 0 0
Subnet Mask:	0 0 0 0
Use DHCP:	Enable (selected), Disable
Default Route:	Enabled
Gateway IP Address:	0 0 0 0
PPP	
Username:	sz1234@163.gd
Password:	123456

For example, the VPI is 8 and VCI is 35. Now we modify the parameters as following: First, we choose 1 in the ATM Interface because the VPI of Interface 1 is 8 and VCI is 5.

The account provided by ISP is sz1234@163.gd

The password is 123456

ATM Parameters provided by ISP: VPI is 8 VCI is 35 LLC Encapsulation Format

Then we choose Enable in Operation Model and choose PPPoE LLC in Encapsulation. Please input 8 in VPI and 35 in VCI and choose Disable in Bridge and Enable in Default Router. The user name is sz1234@163.gd. password is 123456 and chooses Enable in DNS.

You needn't to modify other parameters. Finally, please save them. If want to save the modified parameters permanently, please enter into User Management interface to save your setting. If you don't do that, you will lose your setting when you use TED8620R next time and you have to setup again. This setting is to modify the intrinsic bridge pattern and if your setting of VPI & VCI is different from the built in bridge pattern, for example, VPI is 9 and VCI is 20, you can modify the setting as you want or you can add a new pattern to meet your requirement. There are two more interface for you to add new parameter setting. For

example, you can add a new function pattern of built-in Dial –up with router function. Please setup it as following: Please choose 7 in ATM interface and Enable in Operation Model and PPPOE LLC in Encapsulation. The VPI is 9 and VCI is 20. Please choose Disable in Bridge and Enable in Default Router and Disable in DNS. Please input the account and password provide by your local ISP. Please choose default setting for other parameters.

ADSL MODEM / Router Configuration Manager GUI

Home LAN WAN Bridging Routing Services Admin

Home | System Mode | Quick Configuration

ATM Interface: 7

Operation Mode: Disabled

Encapsulation: PPPOE LLC

VPI: 9

VCI: 20

Bridge: Disabled

IGMP: Enabled

IP Address: 0 0 0 0

Subnet Mask: 0 0 0 0

Use DHCP: ☐ Enable ☒ Disable

Default Route: Enabled

Gateway IP Address: 0 0 0 0

PPP

Username: jz1234@163.gd

Password: *****

☒ Enable

3.2.3 Dial-up to Internet

Please enter into Quick Configuration and setup the parameters and ADSL MODEM will dial-up automatically. If the parameters are set correctly, The LED Indicator of Status of WAN Interface in the Main Manual is green. If it is red, please check if the connection of ADSL and the parameters are right. If right, the LED indicator of ADSL-LINK of TED8620R will light otherwise it will glint.

3.3 Access Internet by Fixed IP Address

3.3.1 Preparative

Before setting please confirm if you have get the following parameters from your local ISP: VCI, VPI, User Access Method and Encapsulation format, User IP address, Subnet mask, Gateway, DNS.

3.3.2 ADSL MODEM Parameters Setting

Please click Quick Configuration in the main manual, then the following screen will appear and now we illuminate them in detail. (The sample user is in Shenzhen city, china)

ADSL MODEM / Router Configuration Manager GUI

Home LAN WAN Bridging Routing Services Admin

Home | System Mode | Quick Configuration

ATM Interface: 1

Operation Mode: Enabled

Encapsulation: 1483 Bridged IP LLC

VPI: 8

VCI: 35

Bridge: Enabled

IGMP: Disabled

IP Address: 217.68.135.98

Subnet Mask: 255.255.255.0

Use DHCP: ☐ Enable ☒ Disable

Default Route: Disabled

Gateway IP Address: 217.68.135.1

PPP

Username: GSPN

Password:

IP address provide by the local ISP is 217.68.135.98

Subnet mask is: 255.255.255.0

Gateway: 217.68.135.1

D N S: 202.96.134.133

ATM Parameters provided by the local ISP is: VPI 8,VCI 35, and 1483 Bridged.

Setting as follows:

Then we choose Enable in Operation Model and choose 1483

Bridged IP LLC in Encapsulation. Please input 8 in VPI and 35 in VCI and IP is 217.68.135.1 and choose Enable in DNS and input 202.96.134.133 and choose Enable in DNS. You needn't to modify other parameters. Finally, please save them. If want to save the modified parameters permanently, please enter into User Management interface to save your setting. If you don't do that, you will lose your setting when you reboot the device and you have to setup again.

3.4 Dial-up to Internet with out dial-up software

3.4.1 Preparative

Before setting please confirm if you have get the following parameters from your local ISP: VCI, VPI, User Access Method and Encapsulation format(1483 Bridged IP LLC), dial-up account, password.

3.4.2 Installation dial-up software

You can get other out dial-up software to access Internet from your local ISP or you can download it, for example, the Win Poet.

3.4.3 ADSL MODEM Parameters Setting

When you use out dial-up software, The ADSL MODEM is working with bridge method, so please choose 1483 Bridged IP LLC in Encapsulation. You also need input your account and password.

Now we illuminate them in detail. (The sample user is in Shenzhen city, china)

IP address provide by the local ISP is sz1234@163.gd

Password: 123456

ATM Parameters provided by the local ISP is: VPI 8,VCI 35, and LLC in Encapsulation. Please enter into Quick Configuration interface

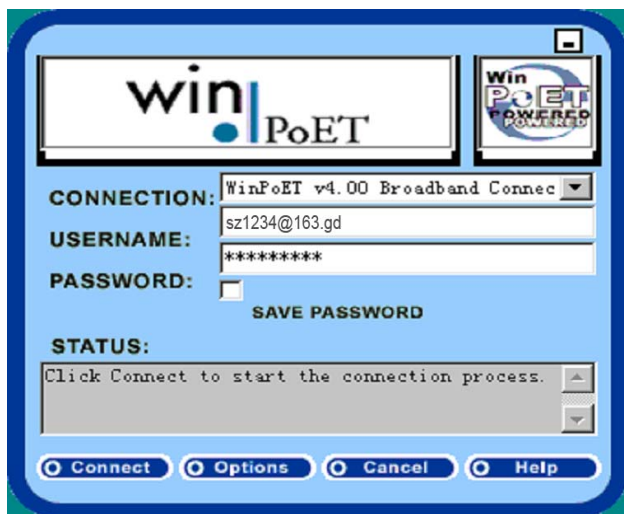
and input 8 in VPI and 35 in VCI and choose 1483 Bridged IP LLC in Encapsulation. Finally, please save them. If want to save the modified parameters permanently, please enter into User Management interface to save your setting. If you don't do that, you will lose your setting when you reboot the device and you have to setup again.

The screenshot shows the 'ADSL MODEM / Router Configuration Manager GUI' with a navigation bar containing 'Home', 'LAN', 'WAN', 'Bridging', 'Routing', 'Services', and 'Admin'. Below the navigation bar is a sub-menu: 'Home | System Mode | Quick Configuration'. The main configuration area is divided into two columns. The left column is empty. The right column contains the configuration settings for the 'ATM Interface'. The settings are as follows:

ATM Interface:	1
Operation Mode:	Enabled
Encapsulation:	1483 Bridged IP LLC
VPI:	8
VCI:	35
Bridge:	Enabled
IGMP:	Disabled
IP Address:	0 0 0 0
Subnet Mask:	0 0 0 0
Use DHCP:	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
Default Route:	Disabled
Gateway IP Address:	0 0 0 0
PPP	
Username:	GSPN
Password:	
Use DNS:	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
DNS	
Primary DNS Server:	0 0 0 0

3.4.4 Dial-up to Access Internet

After finishing dial-up software installation and ADSL MODEM parameter setting, you can access Internet. Please input correct user name and password and click Connect then you can access Internet.



4、TED8620R Advanced Setting

4.1 LAN Setup

4.1.1 LAN Setting

❶ Get LAN address: The default setting is manual. You'd better not modify it otherwise you cannot log in and access Internet. If you change it immodestly, please restore your ADSL MODEM by Reset button immediately.

❷ IP address of LAN: The factory default setting of IP address is 192.168.1.1 you'd better not modify it otherwise maybe you can't log.

❸ Subnet mask: The factory default setting of subnet mask is 255.255.255.0, which is used to label your equipment.

ADSL MODEM / Router Configuration Manager GUI

Home LAN WAN Bridging Routing Services Admin

LAN Config | DHCP Mode | DHCP Server | DHCP Relay

LAN Configuration

Use this page to set the LAN configuration, which determines how your device is identified on the network.

LAN Configuration	
System Mode:	Routing And Bridging
Get LAN Address:	<input checked="" type="radio"/> Manual <input type="radio"/> External DHCP Server <input type="radio"/> Internal DHCP Server
Actual LAN IP Address:	192.168.1.1
Actual LAN Network Mask:	255.255.255.0
Conf. LAN IP Address:	192.168.1.1
Conf. LAN Network Mask:	255.255.255.0
Speed:	100BT
Duplex:	Full
IGMP:	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
MTU:	1500

USB Configuration	
USB IP Address:	192.168.1.2
USB Network Mask:	255.255.255.0
IGMP:	<input checked="" type="radio"/> Enable <input type="radio"/> Disable

4.1.2 DHCP Server Setting

When you modify the IP address of this ADSL Modem or your IP address is not enough, you need to make some setting in DHCP Server.

If you want add IP address, please click ADD and if the IP address range is as same as the existing IP address range, you need to delete the existing IP pool.



ADSL MODEM / Router Configuration Manager GUI

Home LAN WAN Bridging Routing Services Admin

LAN Config DHCP Mode DHCP Server DHCP Relay

Dynamic Host Configuration Protocol (DHCP) Server Configuration

Use this page if you are using the device as a DHCP server. This page lists the IP address pools available to computers on your LAN. The device distributes numbers in the pool to devices on your network as they request Internet access.

Start IP Address	End IP Address	Domain Name	Gateway Address	Status	Action(s)
192.168.1.3	192.168.1.34		0.0.0.0	Enabled	 

Add Address Table Refresh Help

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4.1.3 DHCP Server Pool-Add

When you want to add IP address or IP address Pool, the following screen will appear. Please input address in Start IP Address and End IP Address. You needn't setup the other option by hand. They can be vacancy.

DHCP Server Pool - Add

DHCP Pool Information

Start IP Address:	192	168	2	3
End IP Address:	192	168	2	254
Mac Address:	00	:e0	:4c	:00 :00 :01
Netmask:	255	255	255	0
Domain Name:				
Gateway Address:	0	0	0	0
DNS Address:	0	0	0	0
SDNS Address:	0	0	0	0
SMTP Address:	0	0	0	0
POP3 Address:	0	0	0	0
NNTP Address:	0	0	0	0
WWW Address:	0	0	0	0
IRC Address:	0	0	0	0
WINS Address:	0	0	0	0
SWINS Address:	0	0	0	0

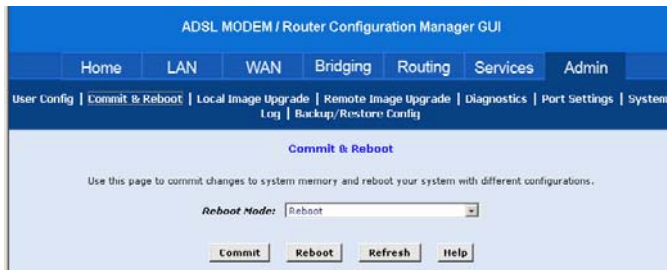
Submit Cancel Help

4.2 Admin Setting

User Config: This page is to modify your password and your password can be up to 64 characters and please differentiate the small or large characters. After finishing modification, please click Submit.



Commit & Reboot: This page is used to save the existing modification or reboot to restore setting according to different config.



a. Save Modification: Please choose reboot and click commit.

Caution: For modification in any menu, you need to enter into this menu to save other the modification will be of no effect !

b. Restore Setting: It is used to restore the parameters that are set inaccurately. Please notice that if you click SAVE, all parameters will be changed.

Reboot from last configuration

Reboot from backup configuration

Reboot from default configuration

Local Image Upgrade: This page is used to update system software. Please obtain latest software from your local distributor.

CAUTION: When you are updating your software, the power must be available otherwise the ADSL MODEM will be unreversed physical damaged and can't work at all!

The screenshot displays the 'ADSL MODEM / Router Configuration Manager GUI'. At the top, there is a blue header bar with the title 'ADSL MODEM / Router Configuration Manager GUI'. Below this is a navigation menu with tabs: Home, LAN, WAN, Bridging, Routing, Services, and Admin. Under the 'Services' tab, a sub-menu is visible with options: User Config, Commit & Reboot, Local Image Upgrade (which is currently selected), Remote Image Upgrade, Diagnostics, Port Settings, System Log, and Backup/Restore Config. The main content area has a light blue background and is titled 'Local Image Upgrade'. It contains the instruction: 'This page is used to upload a new image to the system.' Below this, there is a text input field labeled 'Upgrade File:' containing the path 'I:\TEImage.bin'. To the right of the input field is a '浏览...' (Browse...) button. At the bottom of the form are three buttons: 'Upload', 'Cancel', and 'Help'. The footer of the page states 'Copyright © 2004-2005 GlobespanVirata, Inc. All rights reserved.'